

Appl. No. 10/761,702
Examiner: Warren, Matthew E, Art Unit 2815
In response to the Office Action dated October 19, 2005

Date: April 14, 2006
Attorney Docket No. 10113671

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (currently amended): A bit line contact structure of a memory device, comprising:

a substrate having a transistor of the memory device thereon, the transistor having a raised gate electrode, a drain region, and a source region;

a composite dielectric layer, sequentially having a first dielectric layer, barrier layer, and second dielectric layer, directly on the transistor, the first dielectric layer comprising polyimide ~~a spin-coating material~~, the composite dielectric layer having an opening exposing the drain region; and

a tungsten layer or a polysilicon layer ~~conductive layer~~ in the opening,

wherein the thickness of the first dielectric layer is thicker than the second dielectric layer.

Claim 2 (canceled)

Claim 3 (original): The structure as claimed in claim 1, wherein the first dielectric layer is about 3000Å to 4000Å thick.

Claim 4 (original): The structure as claimed in claim 1, wherein the barrier layer is SiN.

Claim 5 (original): The structure as claimed in claim 1, wherein the barrier layer is about 100Å to 300Å thick.

Claim 6 (original): The structure as claimed in claim 1, wherein the second dielectric layer comprises an oxide layer.

Claim 7 (original): The structure as claimed in claim 1, wherein the second dielectric layer is about 1000Å to 3000Å thick.

Claim 8 (canceled)

Appl. No. 10/761,702
Examiner: Warren, Matthew E, Art Unit 2815
In response to the Office Action dated October 19, 2005

Date: April 14, 2006
Attorney Docket No. 10113671

Claim 9 (original): The structure as claimed in claim 1, wherein the first conductive layer is about 2000Å to 4000Å thick.

Claims 10-26 (canceled)

Claim 27 (currently amended): The structure as claimed in claim 26 1, wherein the ~~first dielectric layer comprises~~ polyimide is fluorinated polyimide.

Claim 28 (new): The structure as claimed in claim 1, wherein the first dielectric layer comprises polysilsequioxane.